

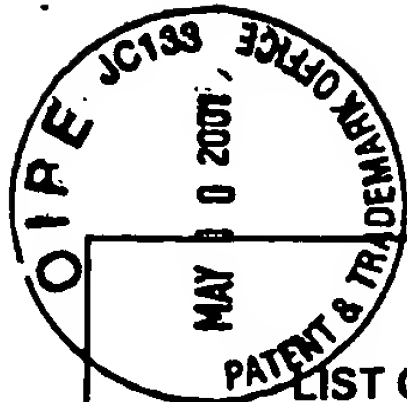
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APPLICATION NO.

09/750,972

APPLICANT

Srivastava, Pramod K.

FILING DATE

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GROUP

1643 1643

U.S. PATENT DOCUMENTS

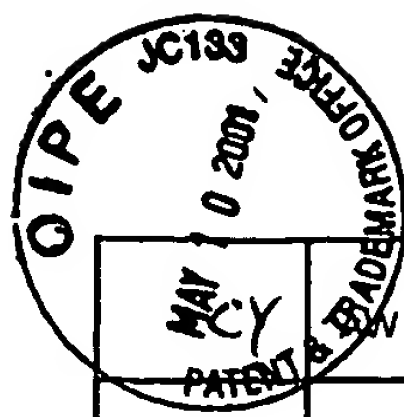
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CY	AA	09/411,075					10/4/99
	AB	5,112,298	5/12/92	Prince et al.			
	AC	5,554,293	9/10/96	Uhoch			
	AD	5,637,082	6/10/97	Pages et al.			
	AE	5,837,251	11/17/98	P. Srivastava			
	AF	5,846,928	12/8/98	Kishida			
	AG	5,935,576	8/10/99	P. Srivastava			
	AH	5,961,979	10.5.99	P. Srivastava			
	AI	5,985,270	11/16/99	P. Srivastava			
	AJ	6,017,540	1/25/00	P. Srivastava			
	AK	6,027,731	2/22/00	Pauza			
	AL	6,033,561	3/7/00	Schoendorfer			
	DH	09/668,724					9/22/00
	DI	09/625,137					7/25/00
CY	DJ	60/209,095					6/2/00

FOREIGN PATENT DOCUMENTS

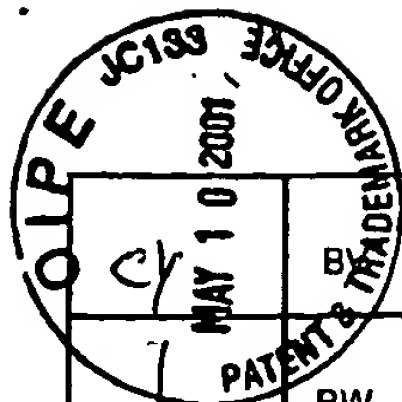
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CY	AM	WO 96/10411	4/11/96	PCT				
CY	AN	WO 97/10002	3/20/97	PCT				
CY	AO	WO 98/46743	10/22/98	PCT				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

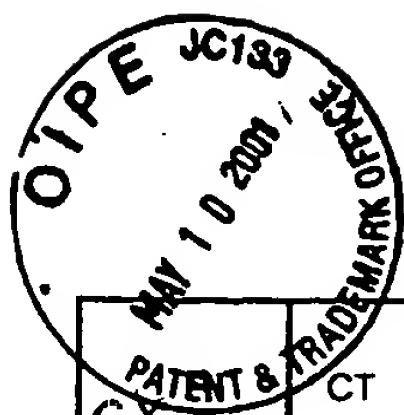
CY	AP	Arnold-Schild et al., 1999, "Cutting edge: receptor-mediated endocytosis of heat shock proteins by professional antigen-presenting cells", J. Immunol. 162: 3757-3760.
	AQ	Arnold et al., 1995, "Cross-priming of minor histocompatibility antigen-specific cytotoxic T cells upon immunization with the heat shock protein gp96", J Exp Med. Sep 1;182(3):885-9.
	AR	Asea et al., 2000, "HSP70 stimulates cytokine production through a CD14 dependant pathway, demonstrating its dual role as a chaperone and cytokine", Nature Med. 6: 435-42
	AS	Bevan, 1995, "Antigen presentation to cytotoxic T lymphocytes in vivo", J.Exp. Med. 192: 639-41
	AT	Binder et al., 1998, Cell Stress & Chaperones 3 (Supp.1): 2.
	AU	Bosch et al., 1999, "State of the art of therapeutic apheresis in Europe", Ther Apher. 3(3):197-8.
CY	AV	Castellino et al., 2000, "Receptor-mediated Uptake of Antigen/Heat Shock Protein Complexes Results in Major Histocompatibility Complex Class I Antigen Presentation via Two Distinct Processing Pathways", J. Exp. Med. 191: 1957-64.



		Chen et al., 1999, "Human 60-kDa Heat-Shock Protein: A Danger Signal to the Innate Immune System", J. Immunology 162: 3212-3219
	AX	Chu et al., 1994, "Adjuvant-Free in Vivo Targeting. Antigen Delivery by α_2 -macroglobulin enhances antibody formation", J. Immunol. 152(4):1538-45.
	AY	Chu and Pizzo, 1993, "Receptor mediated antigen delivery into macrophages. Complexing antigen to α_2 -macroglobulin enhances presentation into T cells", J. Immunol. 150(1):48-58.
	AZ	Ciupitu et al., 1998, "Immunization with a lymphocytic choriomeningitis virus peptide mixed with heat shock protein 70 results in protective antiviral immunity and specific cytotoxic T lymphocytes", J Exp Med. 187(5):685-91.
	BA	Coutinho et al., 1998, "Alpha-2-macroglobulin receptor is differently expressed in peritoneal macrophages from C3H and C57/B16 mice and up-regulated during Trypanosoma cruzi infection", Tissue and Cell 30: 407-15
	BB	Day et al., 1997, "Direct delivery of exogenous MHC class I molecule-binding oligopeptides to the endoplasmic reticulum of viable cells", Proc Natl Acad Sci. USA 94: 8064-8069
	BC	Dennis et al., 1989, "Alpha 2-macroglobulin is a binding protein for basic fibroblast growth factor", J Biol Chem. 264 (13):7210-6.
	BD	Fadok et al., 2000, "A receptor for phosphatidylserine-specific clearance of apoptotic cells", Nature 405(6782):85-90.
	BE	Fay et al., 1979, "Leukopheresis Therapy of Leukemic Reticuloendotheliosis (Hairy Cell Leukemia)", Blood 54: 747-749
	BF	Forrester et al., 1983, "Effect of modified alpha 2macroglobulin on leucocyte locomotion and chemotaxis", Immunology. 50(2):251-9.
	BG	Haas et al., 1988, "cDNA cloning of the immunoglobulin heavy chain binding protein", Proc Natl Acad Sci U S A. 85(7):2250-4.
	BH	Herz et al., 1988, "Surface location and high affinity for calcium of a 500-kd liver membrane protein closely related to the LDL-receptor suggest a physiological role as lipoprotein receptor", EMBO J. 7(13):4119-27.
	BI	Hickey et al., 1989, "Sequence and regulation of a gene encoding a human 89-kilodalton heat shock protein", Mol Cell Biol. 9(6):2615-26.
	BJ	Hickey et al., 1986, "Sequence and organization of genes encoding the human 27 kDa heat shock protein", Nucleic Acids Res. 14(10):4127-45.
	BK	Hilliker et al., 1992, "Assignment of the gene coding for the alpha 2-macroglobulin receptor to mouse chromosome 15 and to human chromosome 12q13-q14 by isotopic and nonisotopic in situ hybridization", Genomics. 13(2):472-4.
	BL	Holtet et al., 1994, "Recombinant α_2 -M Receptor binding domain binds to the α_2 -M receptor with high affinity", Ann N Y Acad Sci 737:480-2.
	BM	Huang et al., 1999, "NMR solution structure of complement-like repeat CR8 from the low density lipoprotein receptor -related protein", J. of Biolog. Chem. 274: 14130-14136
	BN	Huang et al., 1984, "Specific covalent binding of platelet-derived growth factor to human plasma alpha 2-macroglobulin. Proc Natl Acad Sci U S A. 81(2):342-6.
	BO	Hunt et al., 1990, "Characterization and sequence of a mouse hsp70 gene and its expression in mouse cell lines", Gene. 87(2):199-204.
	BP	Jensen et al., 1989, "Comparison of α -macroglobulin receptors from human, baboon, rat and mouse liver", Biochem. Arch. 5:171-6
	BQ	Jindal et al., 1989, "Primary structure of a human mitochondrial protein homologous to the bacterial and plant chaperonins and to the 65-kilodalton mycobacterial antigen. Mol Cell Biol. 9(5):2279-83.
	BR	Kol et al., 2000, "Cutting edge: heat shock protein (HSP)60 activates the innate immune response: CD14 is an essential receptor for HSP60 activation of mononuclear cells", J Immunol. 164(1):13-17
	BS	Kornfeld et al., 1980, "Plasmapheresis in Myasthenia Gravis", Plasma Therapy, 2(3): 127-133
	BT	Krieger and Herz, 1994, "Structures and functions of multiligand lipoprotein receptors: macrophage scavenger receptors and LDL receptor-related protein (LRP)", Annu Rev Biochem. 63:601-37.
CY	BU	Kristensen et al., 1990, "Evidence that the newly cloned low-density-lipoprotein receptor related protein (LRP) is the alpha 2-macroglobulin receptor", FEBS Lett. 276(1-2):151-5.



			Maki et al., 1990, "Human homologue of murine tumor rejection antigen gp96: 5'-regulatory and coding regions and relationship to stress-induced proteins", Proc Natl Acad Sci U S A. 87(15):5658-62.
		BW	Maki et al., 1993, "Mapping of the genes for human endoplasmic reticular heat shock protein gp96/grp9", Somat Cell Mol Genet. 19(1):73-81.
		BX	McKee and Collins, 1974, "Intravascular Leukocyte thrombi and aggregates as a cause of morbidity and mortality in leukemia", Medicine 53: 463-478
		BY	Millward and Hoeltge, 1982, "The Historical Development of Automated Hemapheresis", J. of Clin. Apheresis 1: 25-32
		BZ	Misra et al., 1993, "Receptor-recognized alpha 2-macroglobulin-methylamine elevates intracellular calcium, inositol phosphates and cyclic AMP in murine peritoneal macrophages". Biochem J. 290 (Pt 3):885-91.
		CA	Mitsuda et al., 1993, "A receptor-mediated antigen delivery and incorporation system", Biochem. and Biophys. Res. Comm. 191: 1326-31
		CB	Mitsuda et al., 1993, "A receptor mediated delivery of an HIV 1 derived peptide vaccine", Biochem Biophys Res Commun 194(3): 1155-60
		CC	Moestrup et al., 1993, "α ₂ -macroglobulin-proteinase complexes, plasminogen activator inhibitor type-1-plasminogen activator complexes, and receptor-associated protein bind to a region of the α ₂ -macroglobulin receptor containing a cluster of eight complement type repeats", J. of Biolog. Chem. 268: 13691-13696.
		CD	Moestrup et al., 1992, "Distribution of the alpha 2-macroglobulin receptor/low density lipoprotein receptor-related protein in human tissues", Cell Tissue Res. 269(3):375-82.
		CE	Nicchitta et al., 1998, "Biochemical, cell biological and immunological issues surrounding the endoplasmic reticulum chaperone GRP94/gp96", Curr Opin Immunol. 10(1):103-9.
		CF	Nielsen et al., 1996, "Identification of residues in alpha-macroglobulins important for binding to the alpha2-macroglobulin receptor/Low density lipoprotein receptor-related protein", J Biol Chem. 271(22):12909-12.
		CG	Nykjaer et al., 1992, "Purified alpha 2-macroglobulin receptor/LDL receptor-related protein binds urokinase.plasminogen activator inhibitor type-1 complex. Evidence that the alpha 2-macroglobulin receptor mediates cellular degradation of urokinase receptor-bound complexes", J Biol Chem. 267(21):14543-6.
		CH	O'Connor-McCourt et al., 1987, "Latent transforming growth factor-beta in serum. A specific complex with alpha 2-macroglobulin", J Biol Chem. 262(29):14090-9.
		CI	Orth et al., 1992, "Complexes of tissue-type plasminogen activator and its serpin inhibitor plasminogen-activator inhibitor type 1 are internalized by means of the low density lipoprotein receptor-related protein/alpha 2-macroglobulin receptor", Proc Natl Acad Sci U S A. 89(16):7422-6.
		CJ	Osada et al., 1987, "Murine T cell proliferation can be specifically augmented by macrophages fed with specific antigen: α-2-macroglobulin conjugate", Biochem. and Biophys. Res. Comm. 146: 26-31
		CK	Osada et al., 1988, "Antibodies against viral proteins can be produced effectively in response to the increased uptake of alpha 2 macroglobulin: viral protein conjugate by macrophages", Biochem and Biophys. Res. Comm. 150: 883-889.
		CL	Pineda et al., 1994, "Applications of therapeutic apheresis", Mayo Clin Proc. 1994 Sep;69(9):893-4.
		CM	Report of the AMA Panel on Therapeutic Plasmapheresis, Current Status of Therapeutic Plasmapheresis and Related Techniques.
		CN	Sargent et al., 1989, "Human major histocompatibility complex contains genes for the major heat shock protein HSP70", Proc Natl Acad Sci U S A. 86(6):1968-72.
		CO	Savill et al., 1992, "Thrombospondin cooperates with CD36 and the vitronectin receptor in macrophage recognition of neutrophils undergoing apoptosis", J Clin Invest. 90(4):1513-22.
		CP	Singh-Jasjua et al., 2000, "Cross Presentation of Glycoprotein 96-associated antigens on major histocompatibility complex class molecules requires receptor-mediated endocytosis", J. Exp. Med. 191:1965-74
		CQ	Soeiro et al., 2000, "Trypanosoma cruzi: Acute Infection Affects Expression of α-2-macroglobulin and A2MR/LRP Receptor Differently in C3H and C57BL/6 Mice", Exper. Parasitology 96: 97-107
		CR	Spero et al., 1980, "Plasma Exchange in Preparation of Mild Factor IX Deficient Hemophiliacs for Surgical Procedures", 19-22
CY		CS	Srivastava et al., 1991, "Stress-induced proteins in immune response to cancer", Curr Top Microbiol Immunol. 167:109-23.



CY	CT	Srivastava et al., 1987, "5'-structural analysis of genes encoding polymorphic antigens of chemically induced tumors." Proc. Natl. Acad. Sci USA 85:3807-3811
	CU	Srivastava PK, 1993, "Peptide-binding heat shock proteins in the endoplasmic reticulum: role in immune response to cancer and in antigen presentation", Adv Cancer Res. 1993;62:153-77.
	CV	Srivastava PK, 1994, "Heat shock proteins in immune response to cancer: the Fourth Paradigm", Experientia. (11-12):1054-60.
	CW	Srivastava et al., 1994, "Heat shock proteins transfer peptides during antigen processing and CTL priming", Immunogenetics. 39(2):93-8. Review.
	CX	Srivastava et al., 1998, "Heat shock proteins come of age: primitive functions acquire new roles in an adaptive world", Immunity. 8(6):657-65.
	CY	Strickland et al., 1990, "Sequence identity between the alpha 2-macroglobulin receptor and low density lipoprotein receptor-related protein suggests that this molecule is a multifunctional receptor", J Biol Chem. 15;265(29):17401-4.
	CZ	Suto and Srivastava, 1995, "A mechanism for the specific immunogenicity of heat shock protein-chaperoned peptides", Science 269(5230):1585-8
	DA	Ting et al., 1988, "Human gene encoding the 78,000-dalton glucose-regulated protein and its pseudogene: structure, conservation, and regulation", DNA. 7(4):275-86.
	DB	Urbaniak and Robinson, 1990, "ABC of transfusion. Therapeutic apheresis", BMJ. 300(6725):662-5. Review
	DC	Van Leuven et al., 1993, "Molecular cloning and sequencing of the murine alpha-2-macroglobulin receptor cDNA", Biochim Biophys Acta. 1173(1):71-4.
	DD	Wassenberg et al., 1999, "Receptor mediated and fluid phase pathways for internalization of the ER Hsp90 chaperone GRP94 in murine macrophages", J. Cell Science 112: 2167-2175.
	DE	Weiner et al., 1980, "Plasmapheresis in multiple sclerosis: preliminary study", Neurology 30: 1029-33.
	DF	Willnow et al., 1994, "Molecular dissection of ligand binding sites on the low density lipoprotein receptor-related protein", J. of Biolog. Chem. 269: 15827-15832
CY	DG	Yamazaki et al., 1989, "Nucleotide sequence of a full-length cDNA for 90 kDa heat-shock protein from human peripheral blood lymphocytes", Nucleic Acids Res. 17(17):7108.

EXAMINER

Chung H K

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